

Appl. No. 09/890,490  
Final Amendment and/or Response  
Reply to final Office action of 28 December 2005

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**Amendments to the Claims:**

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1-9 (Canceled)

10. (Currently amended) ~~The receiver of claim 6~~ A receiver for a digital signal, the receiver comprising:

one or more filters that are configured to filter an input signal to obtain a processed signal;

a decoder that is configured to determine a digital figure of merit from the processed signal; and

a controller that is configured to adjust a center frequency of at least one of the one or more filters in dependence on the digital figure of merit,

wherein

the one or more filters include:

an input filter, and

a double tuned band-filter.

11. (Previously presented) The receiver of claim 10, further including:

a pre-amp that is configured to operably couple the input filter to the band-filter, and

a mixer that is configured to generate an IF signal from an output of the band-filter,

wherein,

the decoder is configured to receive the IF signal and to produce therefrom a digital output signal and the figure of merit.

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12 (Canceled)

13. (Previously presented) A method comprising:

- receiving an RF input signal,
- filtering the RF input signal via one or more RF filters to provide a filtered RF signal,
- mixing the filtered RF signal with an oscillator signal to provide an IF signal,
- demodulating the IF signal to provide a digital output signal and a figure of merit associated with the digital output signal, and
- adjusting at least one filter of the one or more RF filters based on the figure of merit.

14. (Previously presented) The method of claim 13, wherein

- adjusting the at least one filter includes adjusting a center frequency of the at least one filter.

15. (Previously presented) The method of claim 14, further including

- adjusting a center frequency of another filter of the one or more RF filters.

16. (Previously presented) The method of claim 15, wherein

- the adjusting of the center frequency of the at least one filter and the another filter occur sequentially.

17. (Previously presented) The method of claim 13, further including

- adjusting another filter of the one or more RF filters.

18. (Previously presented) The method of claim 17, wherein

- the adjusting of the at least one filter and the another filter occur sequentially.

19. (Previously presented) The method of claim 18, wherein

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the adjusting of the at least one filter and the another filter are based on a first control signal and a second control signal that are each independently determined based on first and second sequences of figures of merit.

20. (Previously presented) The method of claim 13, wherein  
the figure of merit includes a bit-error rate.